

California

The following is the fruit of a few short
winter excursions in the immediate neigh-
borhood of San Francisco & Mare Island
They were obtained during the winter of
1855 & 1856.

California.

As the Expedition touched at California ~~only~~ in the winter, only the following few plants were collected, chiefly in the vicinity of the Naval Station, on Mare Island, at the upper end of the Bay of San Francisco.

^{sch}
Escholtzia californica, Cham.
Stor. Phys. Berol. p. 73, t. 15. — Chryseis
californica, Hook. & Arn. Bot. Beech. Voy. p.
319. C. crocea, Torr. & Gray, Fl. 1. p. 63.
— The smaller form, var. minor, Hook. &
Arn. l. c. Mare Island.

Frankenia grandifolia, Cham. &
Schlecht. in Linnaea, 1. p. 35; Hook. & Arn. l. c.
p. 135. Along the shores of Mare Island

Spergularia rufiflora, P. B. p. 199, var.
~~marina~~ media. Arenaria media, Linna.

Spergularia rupestris, Cambess. in St.
Hil. Fl. Novas. 2. p. 176. t. 100; Benth. Bot. ^{Vol.} Suppl.
p. 171. - In all probability no more than
a variety of S. rubra, but a ^{rather} well marked
one. As remarked by Chamisso and
by Torrey and Gray, ~~the plant~~ both
winged and wingless seeds are found
in different ^{capsules} ~~parts~~ of the same individual,
or even in the same capsule.

Erodium cicutarium, Linn. Mare
Island.

Notackia scoparia, Nutt. in Torr. & Gray,
Fl. 1. p. 325; Benth. Pl. Hartw. p. 300. Alca-
tras. This appears too near to N. juncea.

Lupinus arboreus, Sims, Bot. Mag.
t. 682; Benth. Pl. Hartw. l. c. L. macrocar-
pus, Hook. & Arn. l. c. Alcatraz.

Lupinus sericeus, Pursh? Erchsch.;
Agardh, Syn. Lup. Mare Island, flowers
purple or light purple.

Rosa Californica, Cham. & Schlecht.
in Linnaea, 2. p. 35. Mare Island.

Frangula Californica, Gray, Gen. M. 2. p. 178.
Rhamnus Californicus, Erch. R. oleifolia, Hook. Mare Island.

Phytolmia arbutifolia, Lindl. Bot. Beg.
t. 441; Torr. Gray, Fl. N. P. 473. Mare
Island; in flower, Alcatraz; in fruit.

Dauschneria Californica, Presl,
Bot. Hank. 2. p. 28, t. 52. Mare Island.

Ribes malvaceum, Smith, in Rus,
byd.; Torr. & Gray, Fl. N. Am. 1. p. 552.

Megarhiza Californica, Torr.

Corygium petiolatum, Hook. & G.,
Bot. Beech. 1. p. 250. Mare Island

Phoradendron tomentosum, Engelm.
in Gray, M. Fendl. p. 59. Viscum tomen-
tosum, S. B. Prodr. 4. p. 670.

Aplopappus ericoides, Hook. & Arn.
Bot. Beech. p. 146. Diplopappus ericoides,
Less., in Linnaea b. p. 117. Ericameria micro-
phylla, Nutt. in Trans. Amer. Phil. Soc. 7, p. 318.
Aletras; growing in dense bunches.

Grindelia hirsutula, Hook. & Arn.
Bot. Beech. p. 351; Torr. & Gray, Fl. 2, p. 247.
Mare Island; in salt marshes, and on the
hills. - The achenia are ^{much} compressed, an-
gital, smooth, and somewhat striate.

Baccharis consanguinea, DC.
Prodr. 5, p. 408. Aletras; forming small
and dense bunches.

Baccharis Douglasii, DC. Prodr. 5, p.
460; Benth. Pl. Hartw. p. 316. Mare
Island; in springy places.

Helenium puberulum, DC. Prodr. 5,
p. 667; Torr. & Gray, Fl. 2, p. 385. Salt marshes;
a form with larger heads and rays than
usual.

Hemizonia pungens, Torr. & Gray,
Fl. 2, p. 344. *Hartmannia pungens*,
Hook. & Arn. Bot. Beech, p. 357; Hook. Ic.
Pl. p. ~~344~~, 334. Mare Island; on
the side of bare hills.

Hemizonia ~~ramosissima~~ rudis,
Sulph. p. 30. Mare Island. - Very much
branched from a simple erect base. Rays
white above, purplish beneath. Disk chaffy
throughout, greenish-white.

Coinogyne carnososa, Less. in Lin-
naea, b. p. 521. Mare Island, common
in salt marshes.

Asteriscia californica, Less. in
Linnaea, b. p. 523. *A. Gischeriana*, Besser
in Ob. Prodr. b. p. 105. *A. abrotanoides* &
A. foliosa, Nutt. Mare Island.

Achillea millefolium, Linn. Mare
Island, in salt marshes.

Graphalium Sprangelii, Hook. & Arn.
Bot. Beech, p. 150. Mare Island.

Macrorhynchus Lessingii, Sb. Prodr.
7. p. 704 Hort. & Arb. Bot. Buch. p. 361. Truxina
aparioides, Less. in Linnaea, 6, p. 501. Mare
Island. — This is clearly Chamisso's
plant, according well with his description,
and it was gathered in the same district.
The thick root is decidedly perennial.
A few of the outer achenia are pubes-
cent.

Plantago maritima, Linnaeus. Mare
Island; on steep banks next the bay.

Malva Limonium, Linnaeus, var.
S. California, Druss. in Sb. Prodr. 12, p.
643. Mare Island, in Salt marshes. —
This appears to be ^{hardly distinguishable from the} ~~not rare~~ ~~than a variety~~
of S. Limonium of the Old World, ~~with~~
and has more corymbose inflorescence
than the var. Caroliniana of the Atlantic
coast; the 2-3-flowered spikelets more
densely crowded in short and spreading spikes.
Specimens which I gathered on the western
border of Texas (Pl. No. of the
distributed collection) manifestly connect
the eastern and the western forms.

Mimulus (*Diplacus*) *glutinosus*,
Wendl.; Jacq. Hort. Schomb. 3, t. 364. *Di-*
placus glutinosus, Nutt.; Benth. in DC.
Prodr. 10, p. 368. *Meatras*. — The in-
sufficiency of the character of *Diplacus*
founded on the placentation has been
shown by Torrey and Gray.

Cordylanthus

Busceta acuminata, Nutt.

Ident. in part. -
2 forms

Blitum Bonus-Henricus, Reich-
ert, var. erosum, Moq. in Ob. Prodr. 13,
p. 85. Mare Island, in Salt marshes,
— This is doubtless Moquin-Tandori's plant.
But its appearance is so unlike B. Bonus-
Henricus that it may well be suspected
to be specifically different.

Atriplex Californica, Moq. in
Ob. Prodr. 13, p. 98. Salt marshes of
Mare Island. — Proeruntent or trailing,
~~and~~ loosely branched, herbaceous; the
leaves thickish, but not coriaceous; the
larger cauline ones ovate-lanceolate and
an inch and a half long. Moquin must
have described the species from branches or
depauperate specimens.

Arthrocnemum fruticosum, Moq.
l.c. var. Californicum, With the pre-
ceding.

Eriogonum nudum, Dougl. in
Benth. Eriog. p. 413. Mare Island.
A variety with solitary involucre.

Quercus agrifolia, Née; Hook.
Dec. Pl. F. 377. Alcatraz. A
small, spreading tree.

Corylus rostrata, Ait. Alca-
traz. Stems 4 to 8 feet high, forming thickets.
The leaves are much more downy and rounder
than the plant of the Eastern North Amer-
ica, and the beak shorter. A few Hart
weys specimens (no. 1960) are intermediate.

ms. } *Scirpus riparius*, Presl; Nat. Hank,
1. p. 192. *Malachochale riparia*, Nees,
Elytrospermum Californicum, C. A. Meyer,
Cyper. t. 2. Mare Island; in marshes.

Scirpus maritimus, Linn. Mare
Island; in salt marshes.

Triglochin maritimum, Linn. Mare
Island; in salt marshes.

Ruppia maritima, Linn. Mare
Island.

Gymnogramma triangulare,
Kaulf.; Hook. & Grev. Doc. Fil., 1, 315,
Mare Island; on banks by the sea side.

Pteris aquilina, Linn. Alcatraz,
Exactly the ^{common} European form.

Allosorus andromedae folius, Kaulf.
Anal. Pterid. p. 18, t. 11. Mare Island.
This is the true plant of Chamisso
and Kaulfuss, with a creeping stipe and
and blunt pinnules; and not the same
as Hartweg's no. 2042, which has mucro-
nate-pointed pinnules, a trifid caudex,
fr. - and ~~is it~~ ~~same~~ has been character-
ized by ^{Mr.} Eaton under the name of *A.*
mucronatus.

Aspidium argutum, Kaulf., Enum.
Fil. p. 242; Hook. & Arn. Bot. Beech. p. 162.
In thickets, Alcatraz. — This has been
referred to *A. rigidum*; but it differs
notably in size and aspect from the
European plant.

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